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AMERICAN DOCTORAL DISSERTATIONS.

The fifth *List of American Doctoral Dissertations* recently published by the Library of Congress¹ contains the following 22 titles in mathematics:

SUZAN R. BENEDICT, *A comparative study of the early treatises introducing into Europe the Hindu art of reckoning* . . . [Concord, N. H., 1916.] 6 + 126 pp. (Univ. of Michigan, 1914.)

R. W. BURGESS, 1887-, *The uniform motion of a sphere through a viscous liquid*. [Reprinted from *Amer. Journ. Math.*, Baltimore, 1916.] Pp. 81-96. (Cornell Univ., 1914.)

H. C. GOSSARD, 1884-, *On a special elliptic ruled surface of the ninth order* . . . [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 431-445. (Johns Hopkins Univ., 1914.)

MARY A. GRIGGS, *The surface tension of mixed liquids*. New York, 1916. 25 pp. (Columbia Univ., 1917.)

J. O. HASSLER, 1884-, *Plane nets periodic of period 3 under the Laplacian transformation*. [Reprinted from *Rendiconti del Circolo Mat. di Palermo*, 1916.] 22 pp. (Univ. of Chicago, 1915.)

OLIVE C. HAZLETT, *On the classification and invariantive characterization of nilpotent algebras*. [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 109-138. (Univ. of Chicago, 1915.)

F. T. H'DOUBLER, *A study of certain functional equations for the θ -functions*, by E. B. Van Vleck and F. T. H'Doubler. [Reprinted from *Trans. Amer. Math. Soc.*, Lancaster, Pa., 1916.] Pp. 9-49. (Univ. of Wisconsin, 1910.)

G. JOHNSON, 1872-, *The arithmetical philosophy of Nicomachus of Gerasa*. Lancaster, Pa., 1916. 3 + 49 pp. (Univ. of Pennsylvania, 1911.)

H. R. KINGSTON, 1886-, *Metric properties of nets of plane curves*. [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 407-430. (Univ. of Chicago, 1914.)

J. R. KLINE, 1891-, *Double elliptic geometry in terms of point and order alone*. [Reprinted from *Annals of Math.*, Lancaster, Pa., 1916.] Pp. 31-44. (Univ. of Pennsylvania, 1916.)

F. J. McMACKIN, 1888-, *Some theorems in the theory of summable divergent series* . . . Lancaster, Pa., 1916. 23 pp. (Columbia Univ., 1916.)

R. W. MARRIOTT, 1882-, *Determination of the order of the groups of isomorphisms of the groups of order p^4 , where p is a prime*. [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 139-154. (Univ. of Pennsylvania, 1911.)

L. C. MATHEWSON, *Theorems on the groups of isomorphisms of certain groups*. [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 19-44. (Univ. of Illinois, 1914.)

BESSIE I. MILLER, *A new canonical form of the elliptic integral*. [Reprinted from *Trans. Amer. Math. Soc.*, 1916.] Pp. 259-283. (Johns Hopkins Univ., 1914.)

W. L. MISER, 1886-, *On multiform solutions of linear differential equations having elliptic function coefficients*. [Reprinted from *Trans. Amer. Math. Soc.*, 1916.] Pp. 109-130. (Univ. of Chicago, 1913.)

E. J. MOULTON, *On figures of equilibrium of a rotating compressible fluid mass; certain negative results*. [Reprinted from *Trans. Amer. Math. Soc.*, 1916.] Pp. 100-108. (Univ. of Chicago, 1913.)

A. L. NELSON, 1891-, *Plane nets with equal invariants*. [Reprinted from *Rendiconti del Circolo Mat. di Palermo*, 1916.] 25 pp. (Univ. of Chicago, 1915.)

D. M. SMITH, 1884-, *Jacobi's condition for the problem of Lagrange in the calculus of variations*. [Reprinted from *Trans. Amer. Math. Soc.*, 1916.] Pp. 459-475. (Univ. of Chicago, 1916.)

L. A. H. WARREN, 1879-, *A class of asymptotic orbits in the problem of three bodies*. [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 221-247. (Univ. of Chicago, 1913.)

C. WOODY, 1884-, *Measurement of some achievements in arithmetic*. New York, Teachers College, 1916. 3 + 63 pp. (Columbia Univ., 1916.)

C. H. YEATON, 1886-, *Surfaces characterized by certain special properties of their directrix congruences*. [Reprinted from *Annali di mat.*, Milano, 1916.] 33 pp. (Univ. of Chicago, 1915.)

MABEL M. YOUNG, *Dupin's cyclide as a self-dual surface*. [Reprinted from *Amer. Journ. Math.*, 1916.] Pp. 267-286. (Johns Hopkins Univ., 1914.)

¹ *A List of American Doctoral Dissertations printed in 1916*. Washington, Government Printing Office, 1918.